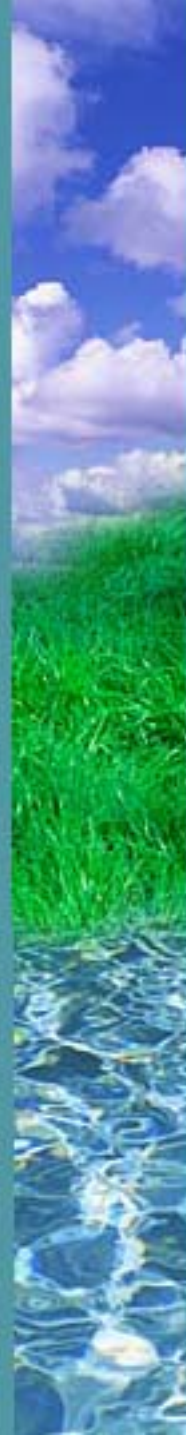




# *Michigan Department of Environmental Quality*

*November 6, 2008*





# *Our Challenge*



- *Clean Air*
- *Swimmable, Drinkable, Fishable Water*
- *Vital Habitat*
- *Productive Land*
- *Healthy People, Animals and Plants*



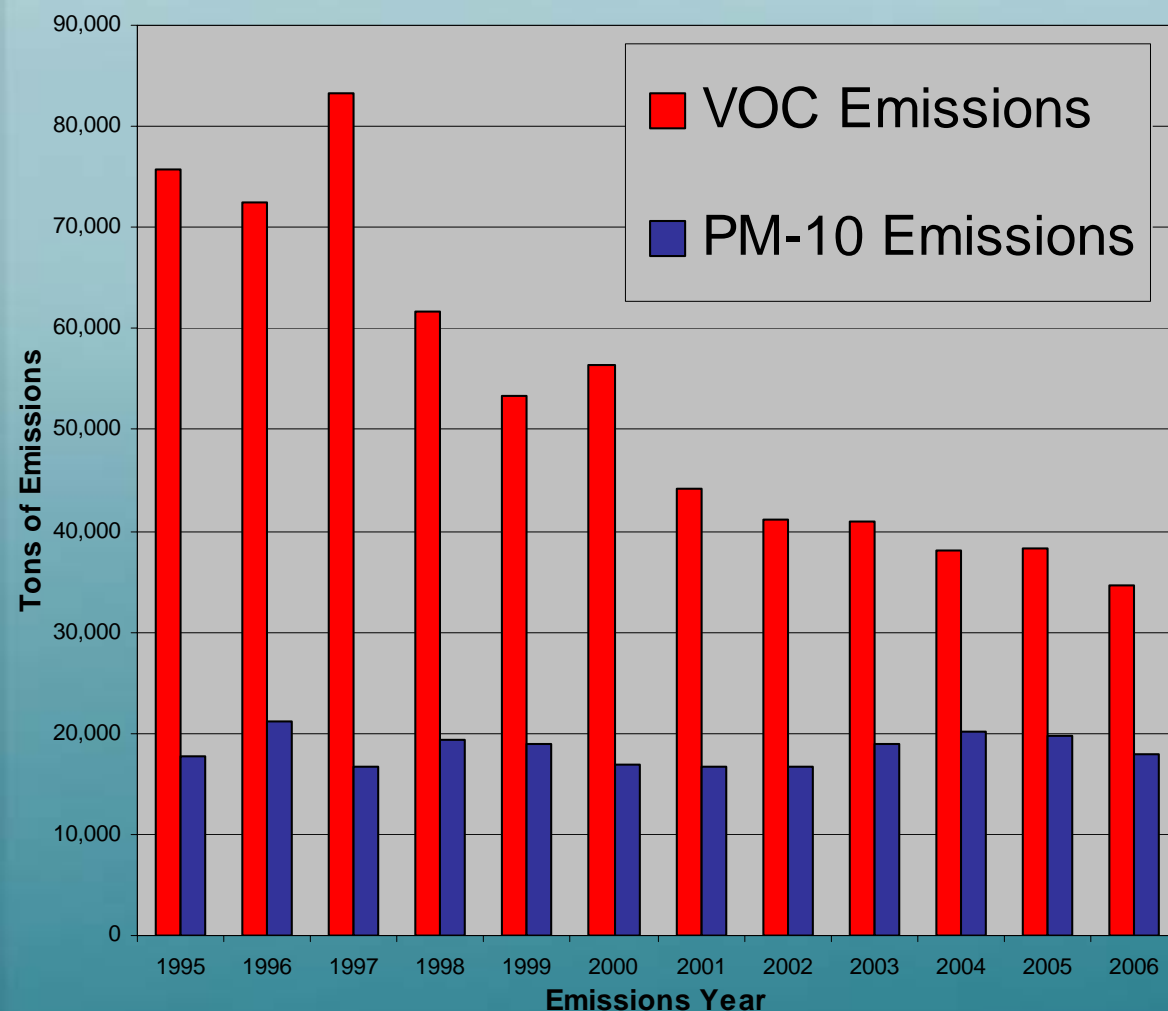
# *Divisions/Offices*

- *Air Quality*
- *Environmental Science & Services*
- *Land and Water Management*
- *Geological Survey*
- *Great Lakes*
- *Remediation and Redevelopment*
- *Waste and Hazardous Materials*
- *Water*





## VOC And PM-10 Emissions



### Benefits:

*Fewer--*

- *Asthma Attacks*
- *Lost Work Days*
- *Hospital Visits*
- *Premature Deaths*



*16 Western/Central Counties  
Attainment for Ozone Pollution*

*8 SE MI Counties Redesignated  
(Attainment Request in Development)*

*Benefits:*

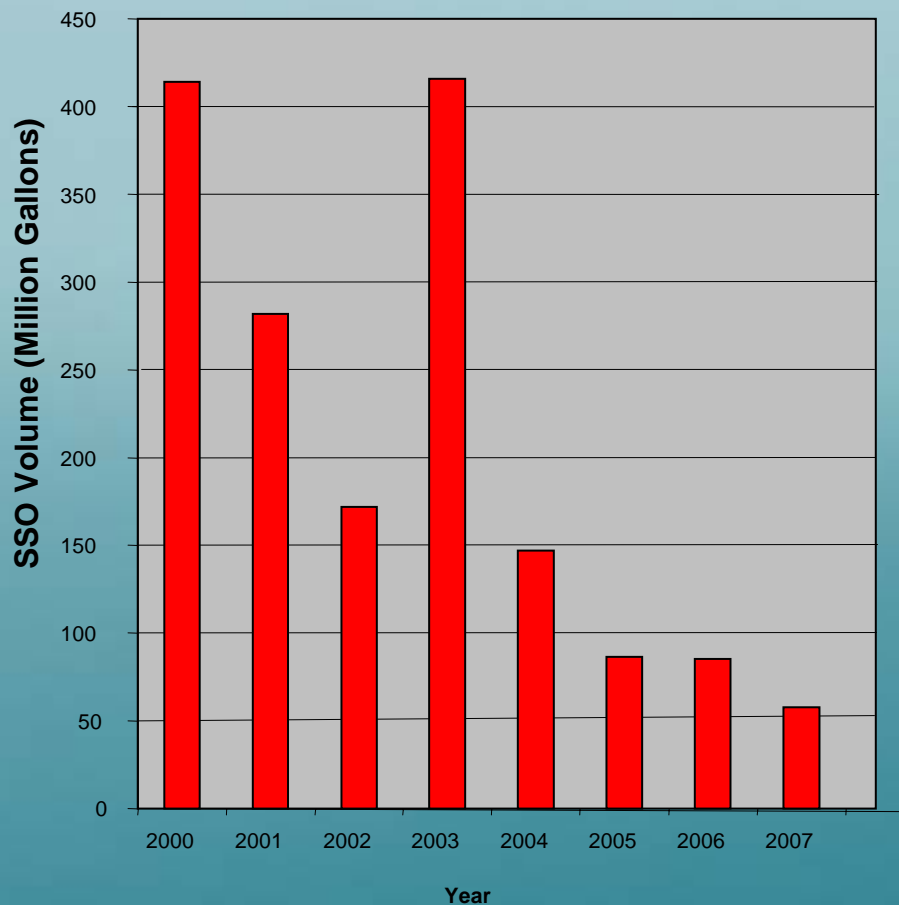
- Human Health Protected*
- Millions Saved in Control Costs*
- Allows Business Growth*
- Less Complicated Permit Reviews*







## Sanitary Sewer Overflow (SSO) Elimination

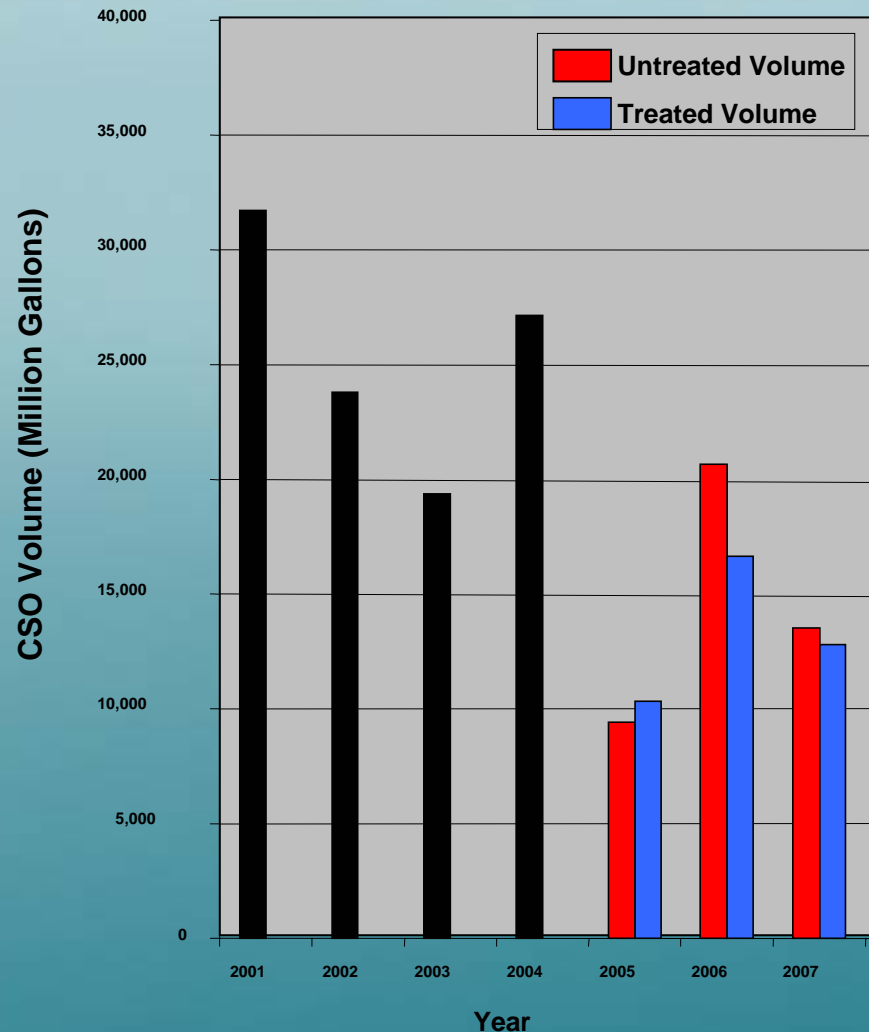


### Benefits:

- *Fewer Beach Closings*
- *Improved Public Health Protection*
- *Improved Aquatic Ecosystems*
- *Reduced Nutrients and Pathogens*



## Combined Sewer Overflow (CSO) Volumes



### Benefits:

- *Fewer Beach Closings*
- *Improved Public Health Protection*
- *Improved Aquatic Ecosystems*
- *Reduced Nutrients and Pathogens*



## *Wastewater and Drinking Water Infrastructure Improvements*

- *\$1.2 Billion SRF Loans*
  - *101 Loans*
- *\$259.7 Million DWRF Loans*
  - *100 Loans*



### *Benefits:*

- *Reduced SSOs/CSOs*
- *Improved Water Quality*
- *16,700 Jobs Created*



## *Nonpoint Source Pollution*

- *\$98 Million in Grants*
- *\$63 Million in Local Match*

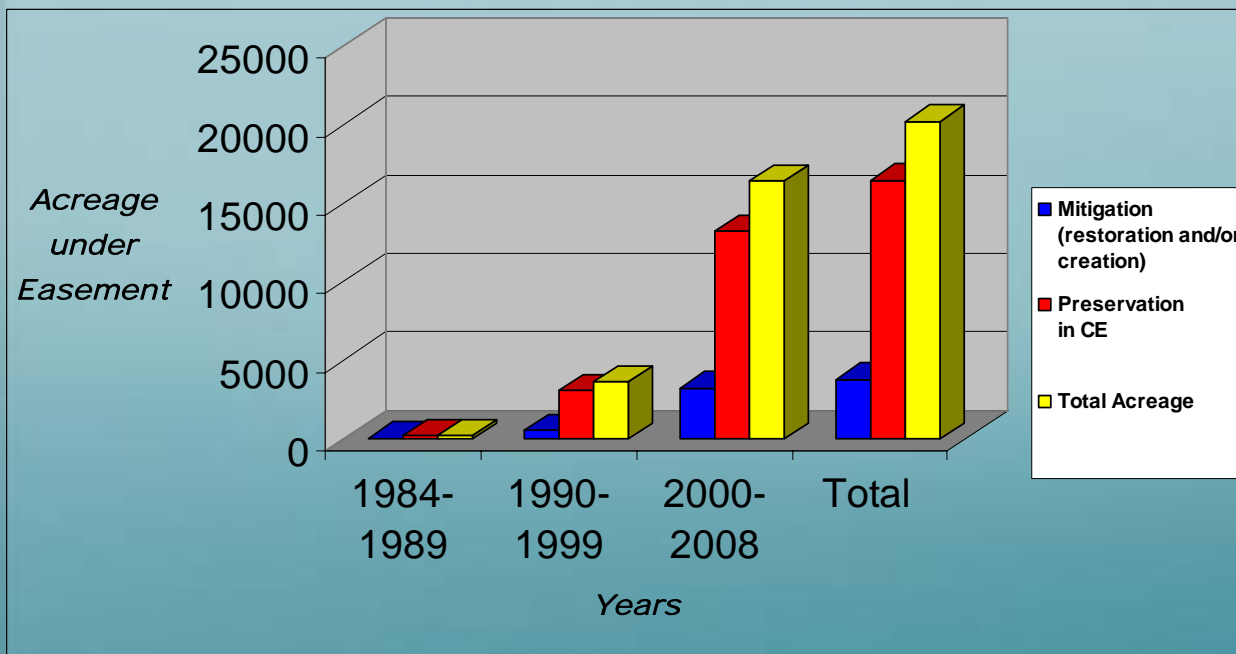


### *Benefits:*

- *Pollutants Reduced Annually*
  - *232,332 tons of sediment*
  - *121 tons of phosphorus*
  - *300 tons of nitrogen*



## Wetlands Protection

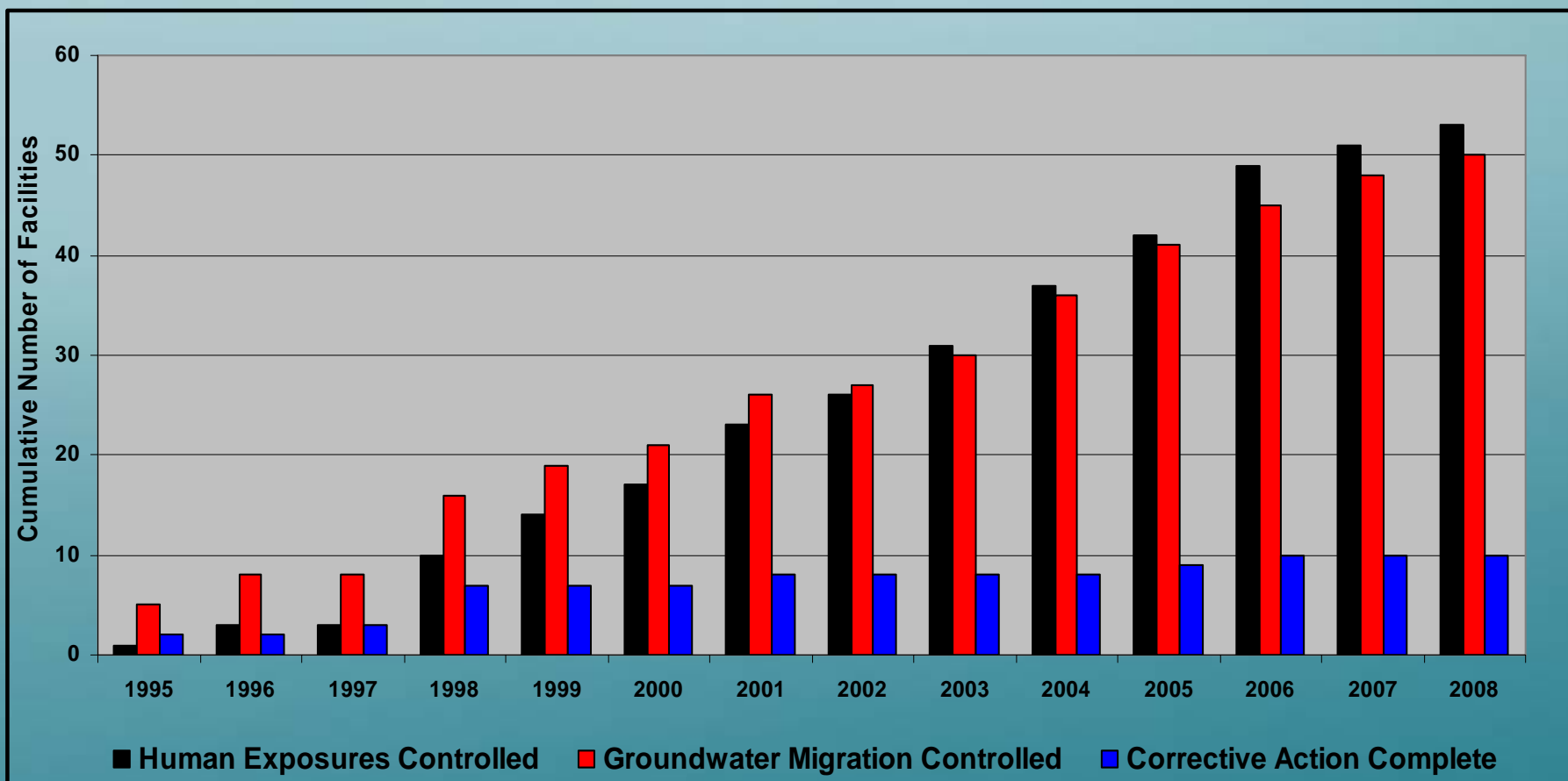


### Benefits:

- *Flood, Storm and Erosion Control*
- *Wildlife Habitat Protection*
- *Groundwater Recharge*



## Hazardous Waste Management at TSDs





## *Investigation and Remediation*

- *766 Sites - \$275 Million*
- *6,219 BEAs*

### *Benefits:*

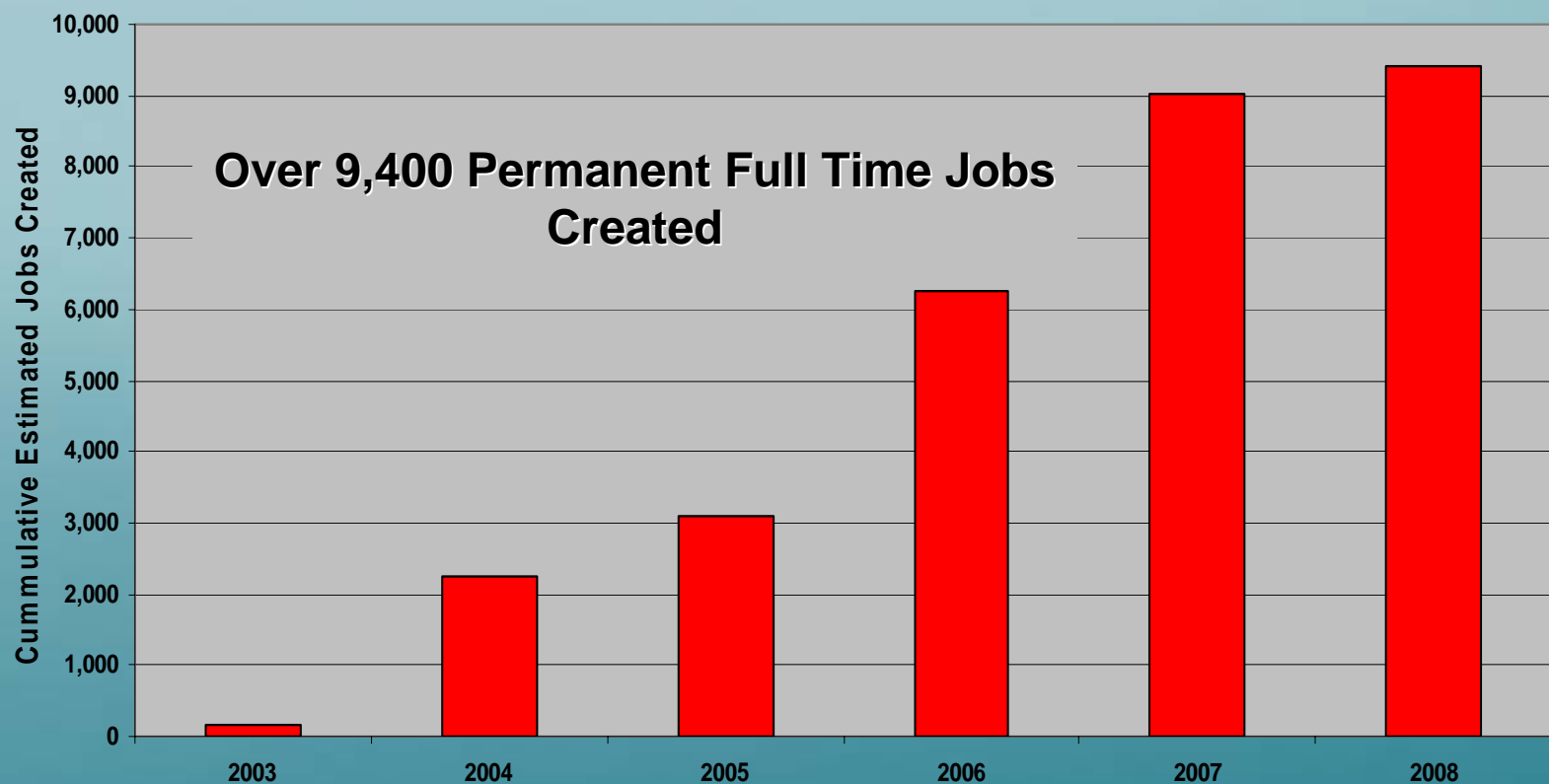
- *Safe Drinking Water for Thousands of Citizens*
- *Contact and Explosion Risk Mitigation*
- *Blight Eliminated*
- *Private Investment and Jobs Growth*





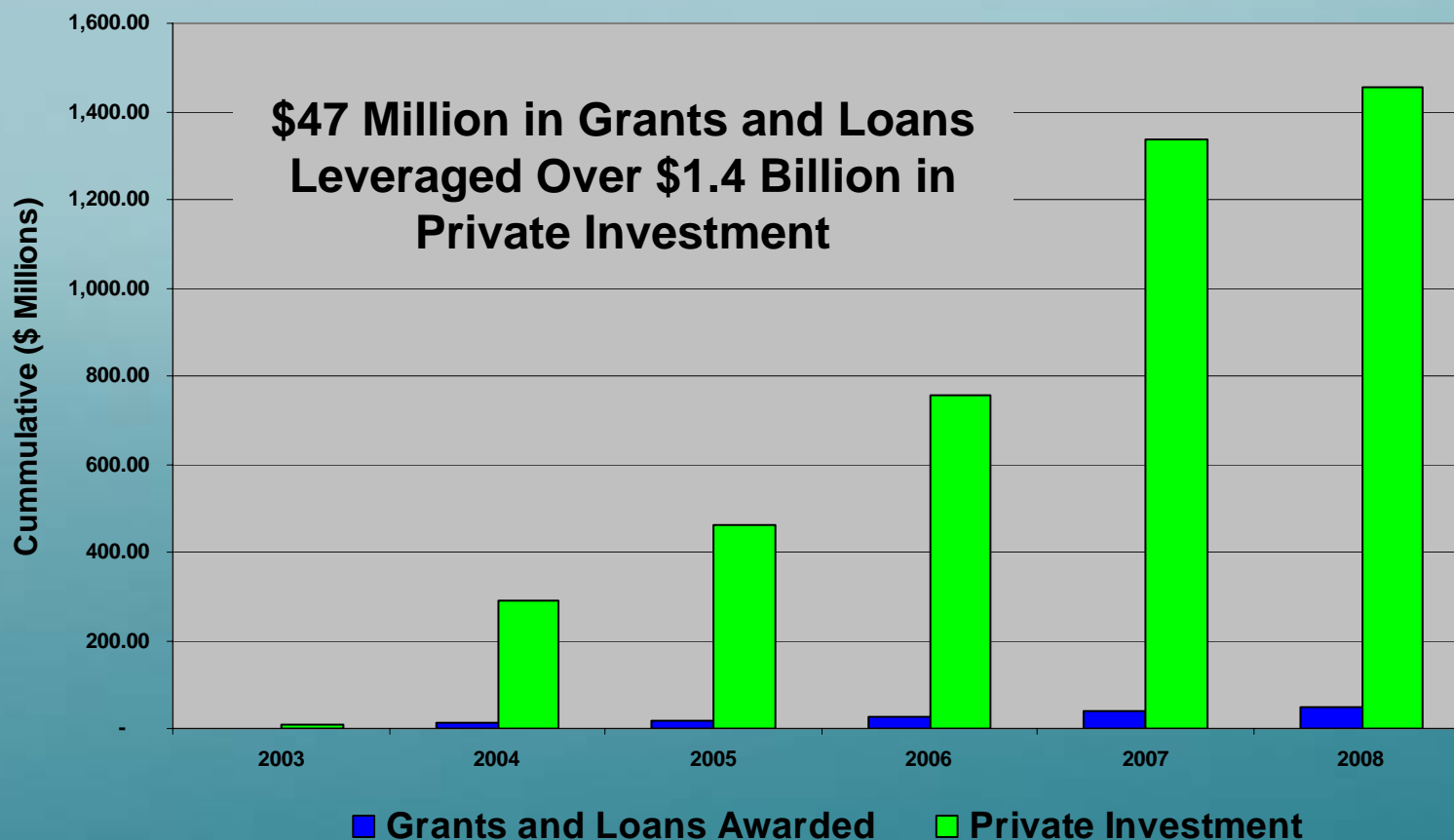


## *Brownfield Grant and Loan Program*





## Brownfield Grant and Loan Program





## Compliance Assistance

- 169,000 Assistance Calls
- 237 Publications
- 196 Workshops --15,000 participants
- ERP -- 800 Facilities

### Benefits:

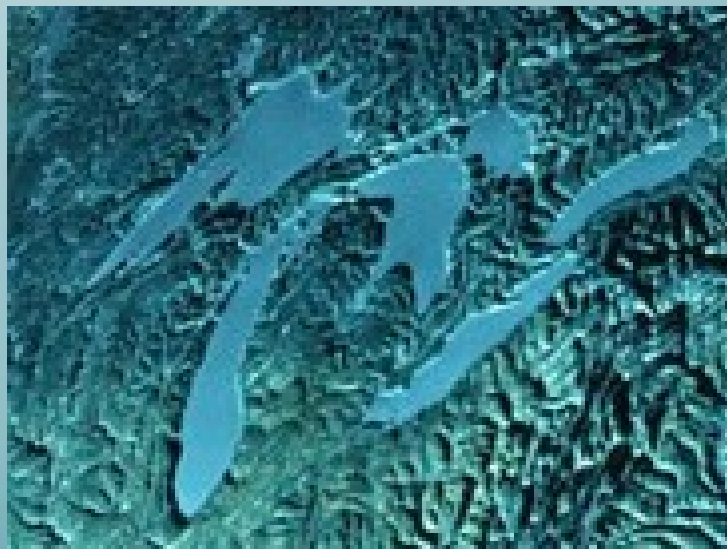
- Pollution Reduced--
  - 1.7 billion gallons water usage
  - 60,000 tons non-hazardous waste
  - 5.6 million tons solid waste
  - 69,000 tons air emissions
  - megawatts of electricity usage





## *AOC Contaminated Sediment Cleanup*

- *Detroit River*
- *Ruddiman Creek*
- *St. Mary's River*
- *White Lake*



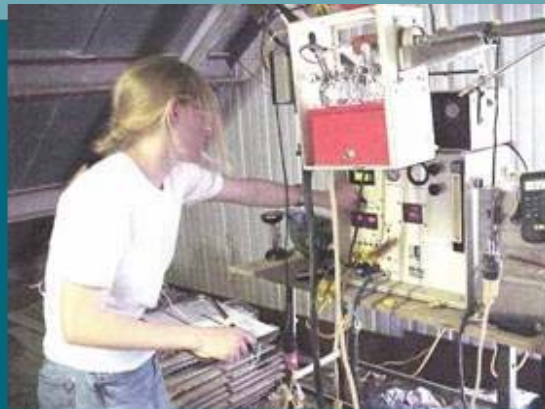
### *Benefits:*

- *Removal of 341,000 cu. yards Contaminated Sediment*
- *\$10 Million Leveraged \$26.3 Million in Federal and Private Funds*
- *Eliminated Potential Human Exposures*
- *Restored Resource Values*





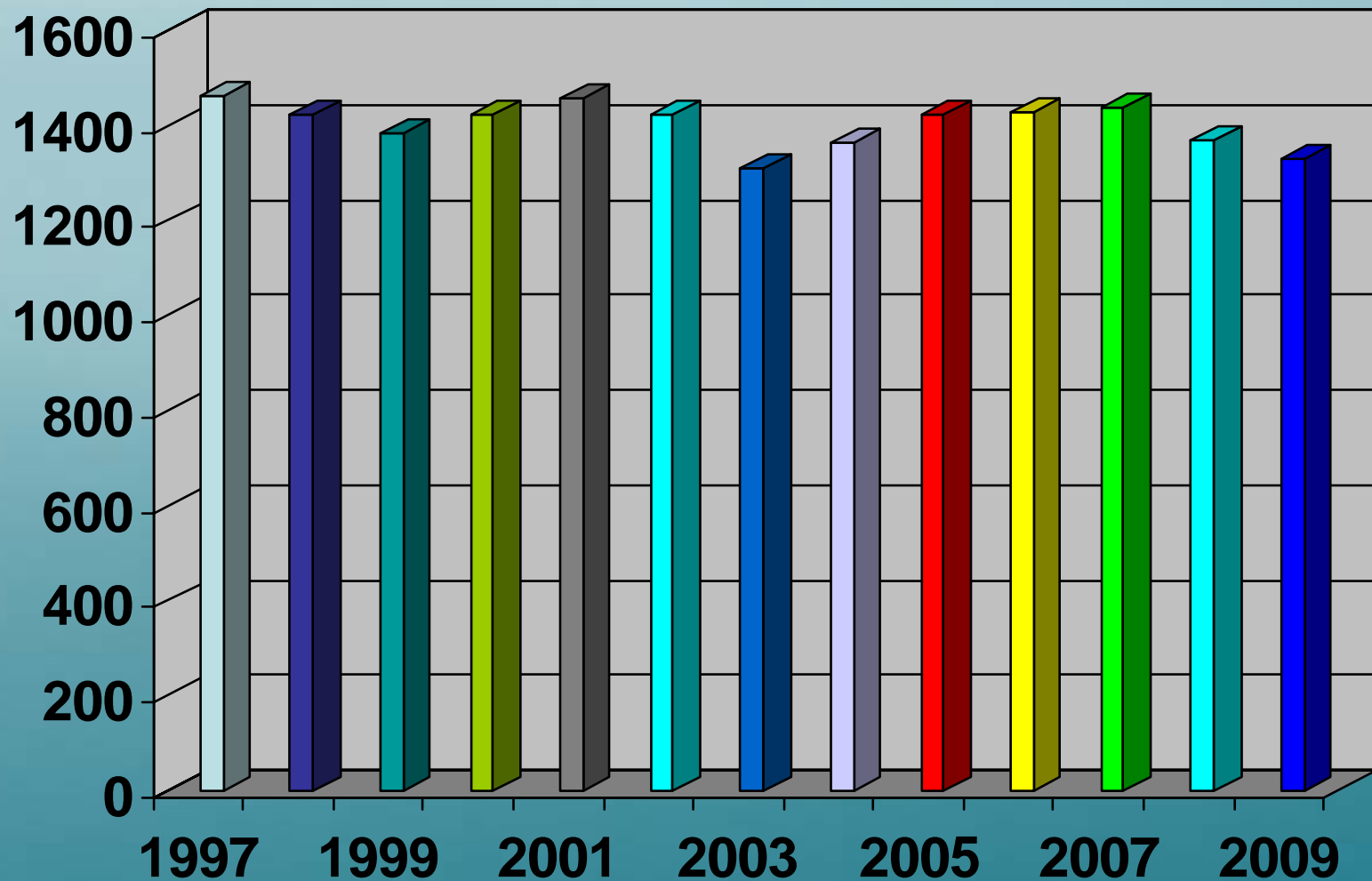
# *Prudent Management*





# Staffing History

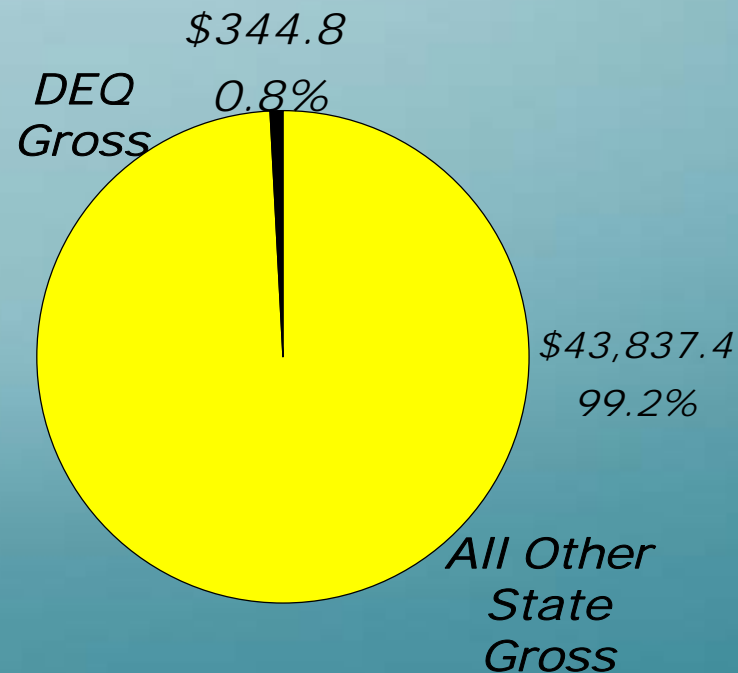
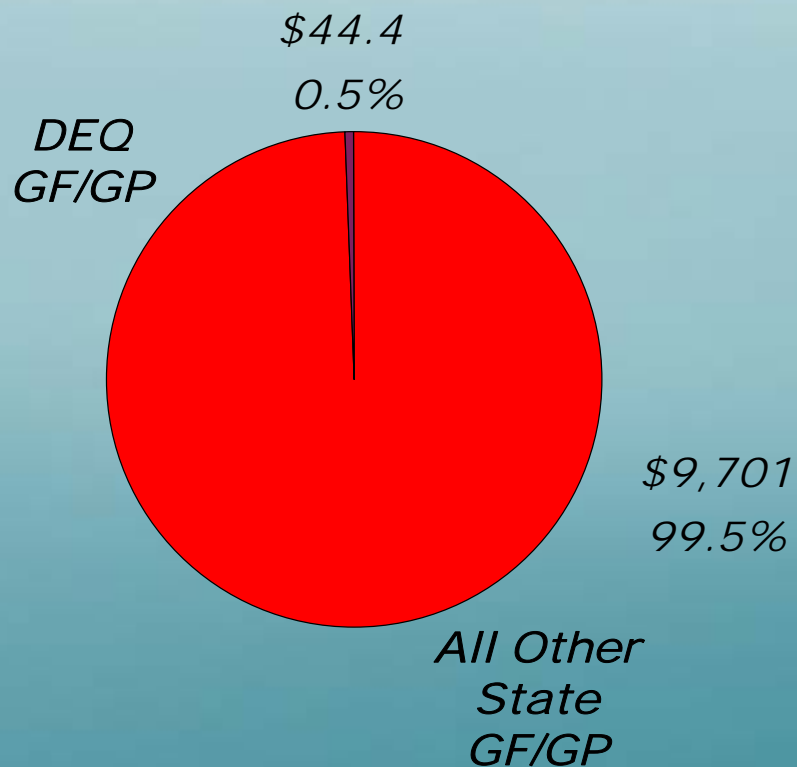
*Filled Positions 1997 - 2009*





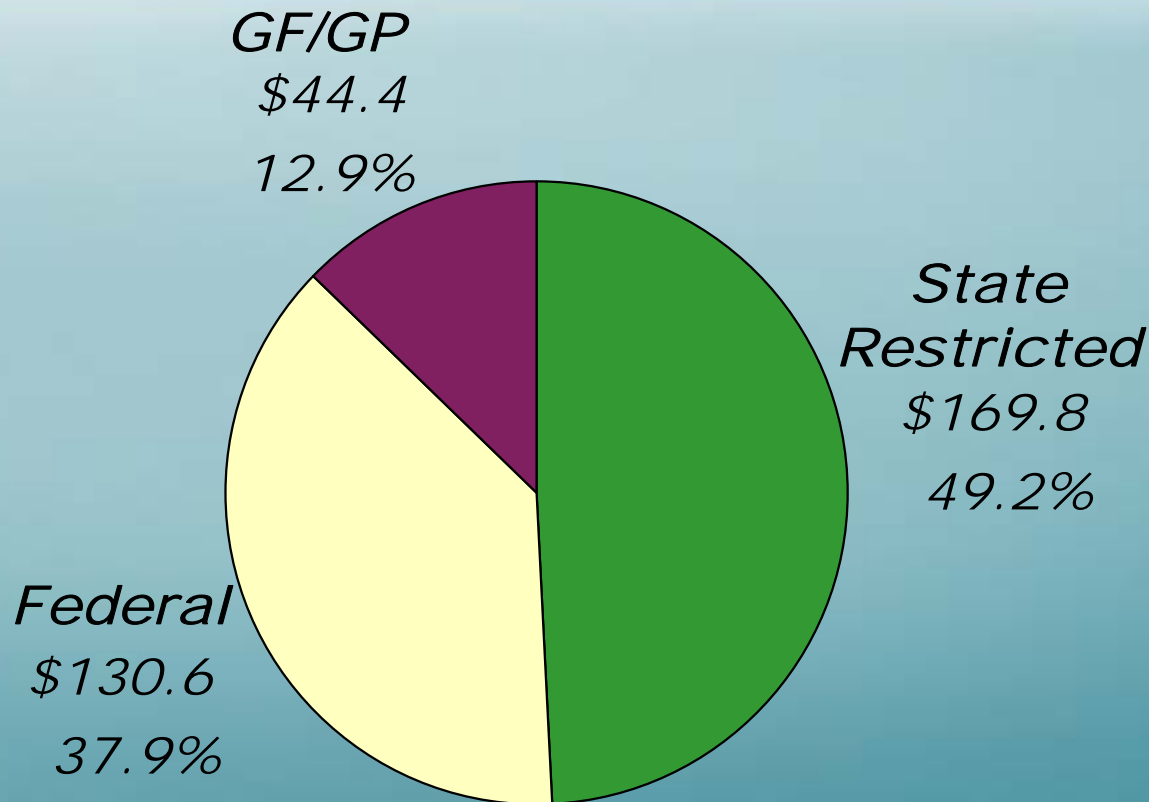
# FY 2009 Appropriations

## Percent of State Total Budget





# *Current Funding Structure*

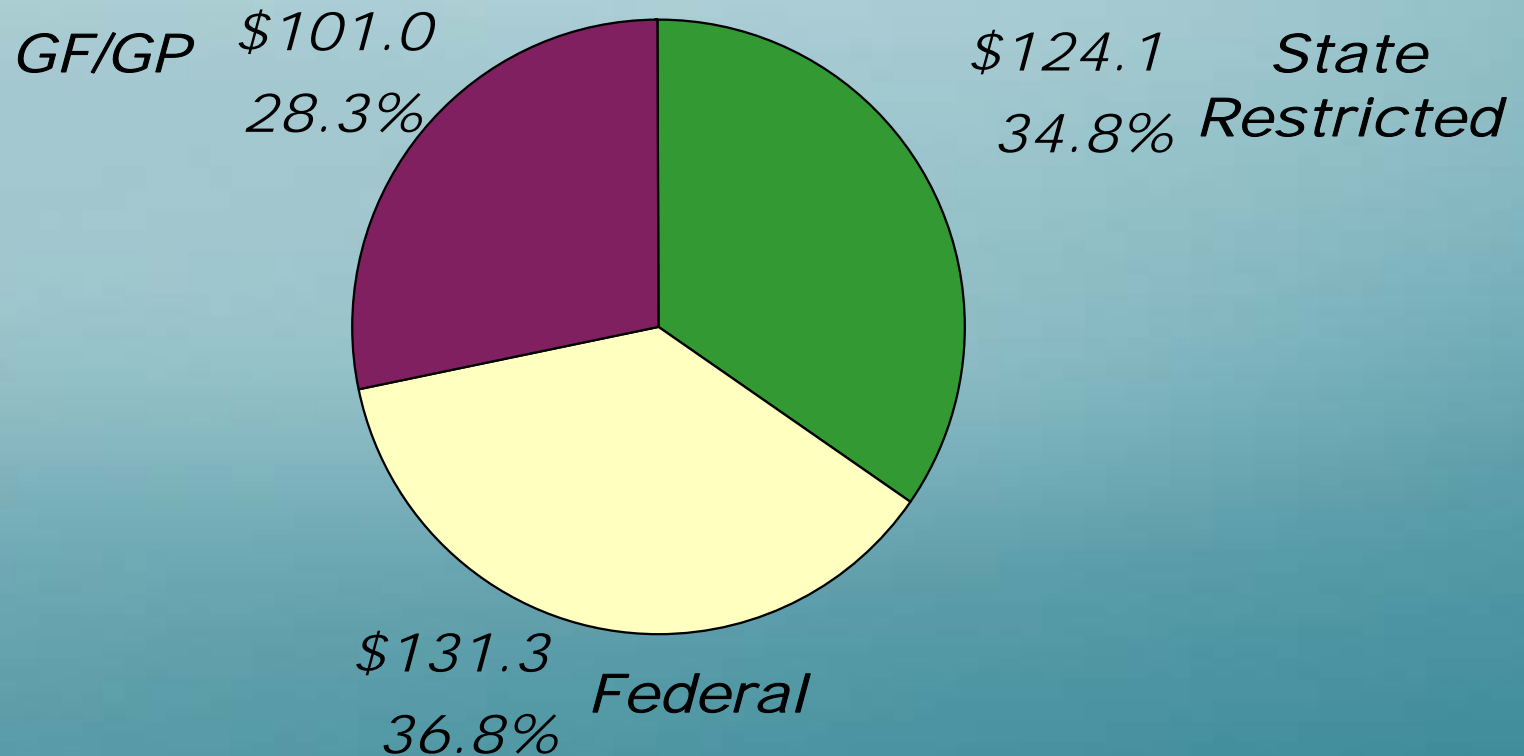


*FY09 Appropriations = \$344.8 million*





# *FY 2002 Funding Structure*

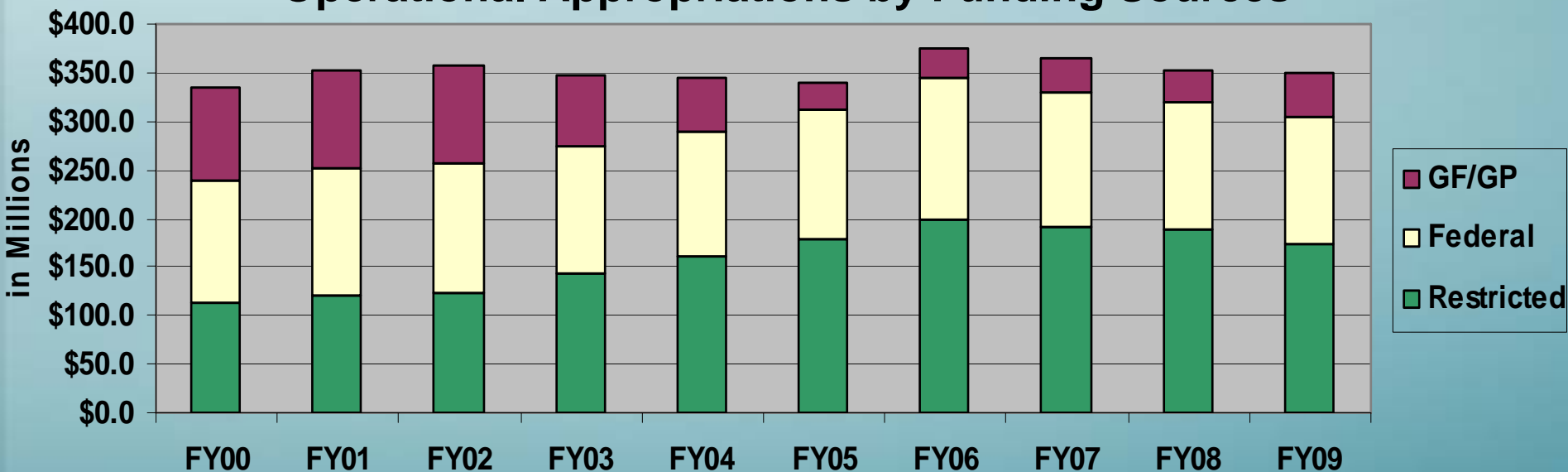


*FY02 Appropriations = \$356.4 million*



# Funding History FY00 - FY09

## Operational Appropriations by Funding Sources



Fund Sources	FY00	FY01	FY02	FY03	FY04	FY05	FY06*	FY07**	FY08	FY09
St. Restricted	\$112.3	\$121.5	\$124.1	\$142.9	\$160.0	\$178.1	\$199.3	\$190.3	\$188.7	\$169.8
Federal	\$126.8	\$129.7	\$131.3	\$131.5	\$129.2	\$133.8	\$144.1	\$140.3	\$131.8	\$130.6
GF/GP	\$96.2	\$99.9	\$101.0	\$72.4	\$56.2	\$28.7	\$31.8	\$33.8	\$31.8	\$44.4
Adj Gross Funding	\$335.4	\$351.2	\$356.4	\$346.8	\$345.4	\$340.6	\$375.2	\$364.4	\$352.3	\$344.8

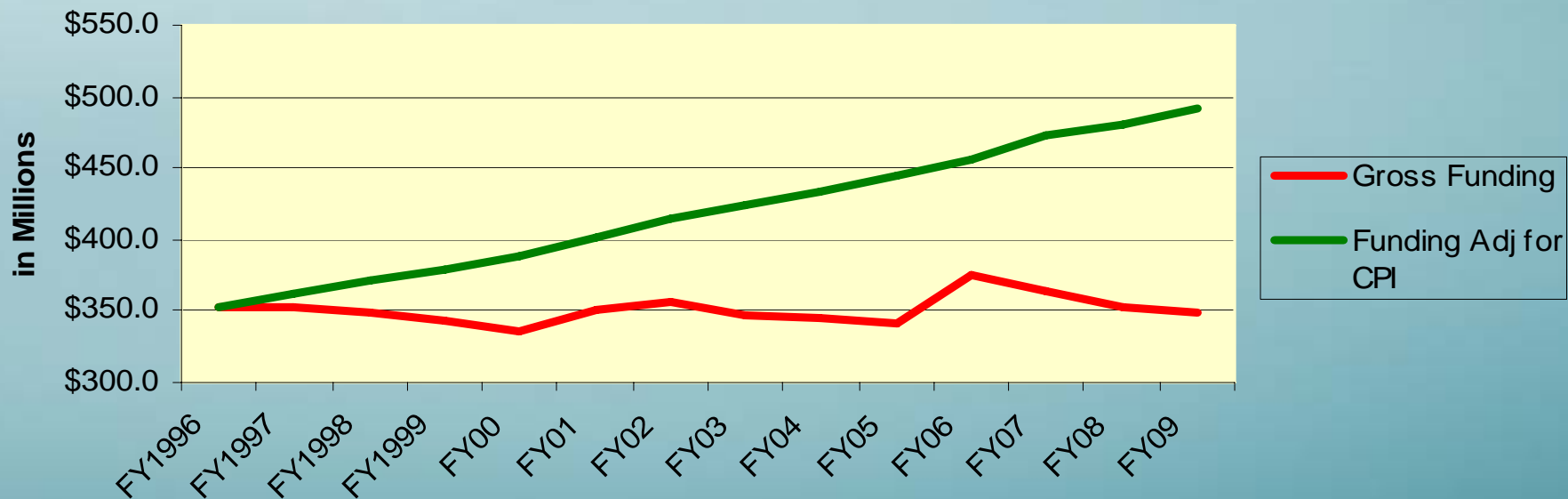
Note: MUSTFA debt service appropriations have been pulled out from 1996-2003 for comparison purposes (approx. \$58 million/yr)

\* For a year to year comparison, \$80.0 million in one-time environmental cleanup funding was removed from FY06 data.

\*\* One-time bond funding for clean-ups and one-time SWQIF grant funding removed from FY07 data.

# **Funding History Compared w/ Inflation**

(based on adjusting FY1996 appropriations each year by the Detroit CPI)



	FY1996	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009
<b>Adj Gross Funding</b>	\$352.0	\$351.2	\$356.4	\$346.8	\$345.4	\$340.6	\$375.2	\$364.4	\$352.3	\$344.8
<b>Adj for CPI</b>	\$352.0	\$402.1	\$415.4	\$424.1	\$434.7	\$440.4	\$451.4	\$468.1	\$474.2	\$488.4
<b>Detroit CPI</b>	2.8%	3.3%	2.1%	2.5%	1.3%	2.5%	3.7%	1.3%	3.0%	3.0%
<b>Funding Shortfall against Inflation</b>		-\$50.9	-\$59.0	-\$77.3	-\$89.3	-\$99.8	-\$76.2	-\$103.7	-\$121.9	<b>-\$143.6</b>

\* estimated Detroit CPI for FY2007 to FY2009

\*\* For a year to year comparison, \$80.0 million in one-time environmental cleanup funding was removed from FY06 data. One-time bond funding for cleann-ups (\$21.1 million) and one-time SWQIF grant funding (\$40.0 million) removed from FY07 data.



## *FY 2010 Fee Increase Proposals*

---

- Fee increases to support existing programs*

<i>– Air Emissions Fees</i>	<i>\$1.3 M</i>
<i>– Land and Water Fees</i>	<i>\$3.2 M</i>
<i>– Waste Reduction Fees</i>	<i>\$1.3 M</i>
<i>– Solid Waste Surcharge Fees</i>	<i>\$1.5 M</i>
<i>– Underground Storage Tank Fees</i>	<i>\$0.9 M</i>
<i>– NPDES Fees</i>	<i>\$2.4 M</i>
<i>– Storm Water Fees</i>	<i><u>\$1.9 M</u></i>
<i>TOTAL</i>	<i>\$12.5 M</i>



# 2008 Bond Proposal

## HB 6228

### 2008 General Election Ballot Proposal

#### Clean Michigan II

#### Environmental Clean-up, Restoration and Protection Bond

#### **PROTECT AND RESTORE OUR GREAT LAKES WATERS.....\$ 390 Million**

- |    |  |               |
|----|--|---------------|
| 1. | Removal and Cleanup of Contaminated Sediments    | \$100 million |
| 2. | Habitat and Species Conservation and Restoration | \$ 65 million |
| 3. | Prevention of Non-Point Source Water Pollution   | \$ 65 million |
| 4. | Drinking Water Infrastructure Improvement        | \$ 60 million |
| 5. | Waterfront Improvements                          | \$ 50 million |
| 6. | Water Quality Monitoring                         | \$ 25 million |
| 7. | Pollution Prevention                             | \$ 20 million |
| 8. | Aquatic Invasive Species                         | \$ 5 million  |

#### **CLEAN-UP AND REDEVELOP CONTAMINATED SITES.....\$ 820 Million**

- |    |   |               |
|----|---|---------------|
| 1. | Contaminated Site Clean-up                | \$700 million |
| 2. | Brownfield Redevelopment Grants and Loans | \$100 million |
| 3. | Lead Hazard Abatement Grants              | \$ 20 million |

#### **LAND STEWARDSHIP.....\$ 90 Million**

- |    |  |               |
|----|--|---------------|
| 1. | Conservation Reserve Enhancement Program | \$ 35 million |
| 2. | Groundwater and Surface Water Protection | \$ 20 million |
| 3. | Farmland Preservation                    | \$ 35 million |

**TOTAL**

**\$ 1.3 Billion**





*Protecting  
Michigan's  
Environment*



*Ensuring  
Michigan's  
Future*